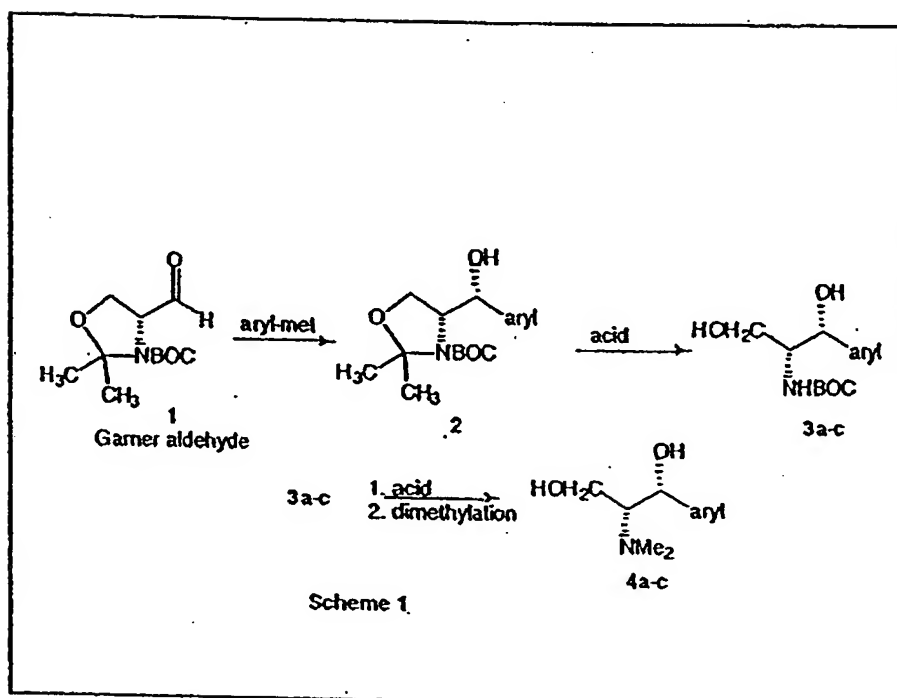


# Potential *Drosophila* SK Genes

|           |                  |                 |                  |                     |                    |                 |                 |     |     |     |     |
|-----------|------------------|-----------------|------------------|---------------------|--------------------|-----------------|-----------------|-----|-----|-----|-----|
| 181.      | 195              | 196             | 210              | 211                 | 225                | 226             | 240             | 241 | 255 | 256 | 270 |
| 1 DSK1747 | FRSSNDYGVNLOTAE  | MAHTIRKHKR      | ----             | GNSSSPADCGKQL       | LILLNPKSGSGKRE     | LFKQVAPLTAEAY   | QYOLQITTHPOYAKE | 236 |     |     |     |
| 2 DSK2159 | FRSFOTFEDWIREAD  | RMYSRLRMQLHRILE | EIFVAPTVDERRRR   | LVLNPKSGSGDARE      | VFNHWTPVPLNEAY     | PYDLYVTKHSIFAIE | 262             |     |     |     |     |
| 3 HSPHK1  | -----            | -----           | -----            | -----               | -----              | -----           | -----           | 62  |     |     |     |
| 271       | 285              | 286             | 300              | 301                 | 315                | 316             | 330             | 331 | 345 | 346 | 360 |
| 1 DSK1747 | FVTRRDLTRYSGI    | WASGDGLFYEVING  | LNERDHRACREL     | P LGIIPGSGNGLA      | KS VAHCHNEPYEKPIL  | HATLTCHWAGK     | --STP           | 324 |     |     |     |
| 2 DSK2159 | FLSTR--CLDAWCV   | VAVGDGLFHEIVNG  | LQRODHAHVLPHLA   | LGIIPGSGNGLA        | RS IAHCTYK-----    | PVL GAALTVISGR  | --SSP           | 343 |     |     |     |
| 3 HSPHK1  | LYRSE--ELGRDAL   | VWASGDGLMHEWNG  | LNERPDWETAQKP    | LCSLPAGSGNALA       | AS LNHVAGVEQVTNEDL | LTNCTLLCRRLSP   | 149             |     |     |     |     |
| 361       | 375              | 376             | 390              | 391                 | 405                | 406             | 420             | 421 | 435 | 436 | 450 |
| 1 DSK1747 | MDVVRVELATROKHF  | VMYSFLSVGNGLIAD | IDIESERLRSIGAOR  | FTLWAIKRLIGLRSY     | KRVSLLGKGGKEP      | PVEAARELPAESTAA | 414             |     |     |     |     |
| 2 DSK2159 | MDVVRVQLQSR      | ----            | -LVSFLSIGMLISD   | VDIESERIMLVGYOR     | FTWTLVRLVNLRTY     | NGRISILLTDHEVSS | -THSATGYAQRVQ   | 428 |     |     |     |
| 3 HSPHK1  | MNLSLHTASGLR     | --              | -LFSVLSLWNGFIAD  | VOLESEKYRLGEMR      | FTLGTFLRLAALRTY    | RGRLAYLPVGRVSK  | ---TPASPIVWQ--- | 230 |     |     |     |
| 451       | 465              | 466             | 480              | 481                 | 495                | 496             | 510             | 511 | 525 | 526 | 540 |
| 1 DSK1747 | GIRSSLPLNAGEFHD  | LPEEEGEAVLDGEQ  | FADAISLDRSY      | ---Y RQWADSHSANSRRT | AYSLGGPSHRSNRS     | RKISQRTEAANAIEF | 501             |     |     |     |     |
| 2 DSK2159 | SSRSCHTHIDMLNGP  | APTYSSEAFLP-QE  | FADVISLETISINQSF | RSRCDNLSGGRRS       | FYYSIS-ESIYHSLA    | DESEFAGLAASLEN  | 516             |     |     |     |     |
| 3 HSPHK1  | -QGPDVDAHLVPLEEP | VP-----         | -----            | -----               | -----              | -----           | -----           | 246 |     |     |     |
| 541       | 555              | 556             | 570              | 571                 | 585                | 586             | 600             | 601 | 615 | 616 | 630 |
| 1 DSK1747 | AER--VPTGTTPPLQ  | NPLSSDGNHICEDGD | FVNWHAAYTHLSSD   | VFFAPESRLDDGLIY     | LVIIRRGVSRHQLLI    | FMNLNAGTHLPIGE  | 589             |     |     |     |     |
| 2 DSK2159 | RQNYGPASELPDLN   | EPLSEDDQGLVEEGE | FVNWHAAYQTHLGID  | CHFAPKAQLNDGTTY     | LILTRAGISRHILLS    | FLYNSSGTHLPESH  | 606             |     |     |     |     |
| 3 HSPHK1  | -----            | -----           | SHMTVTPDED       | FVLVLALLSHLHSGE     | MFAAPVGRCAAGVNH    | LFYIRAGVSRAMLLR | LFLANGKGRHNEY-E | 315 |     |     |     |
| 631       | 645              | 646             | 660              | 661                 | 675                | 676             | 690             | 691 | 705 | 706 | 720 |
| 1 DSK1747 | OPFIKVPICRAFRIE  | PSSSDGILWVGGERV | EYGPQAEVMPGLIN   | VMTTSQ-----         | -----              | -----           | -----           | 641 |     |     |     |
| 2 DSK2159 | DDHKVILPVRAFRLE  | PVDNHGILTVDGERV | EFGLPQAEVLPGIAR  | VWPNVSTFRFSAT       | LQHGIPICIPVRKRF    | VLNMSSEELAPINE  | 696             |     |     |     |     |
| 3 HSPHK1  | CPYLYVVPWAFRLE   | PKDGKGFANDGELM  | VSEANGQIHPIYFVH  | MUSGCVPEP--PSIK     | PQMPPEEPL-----     | -----           | -----           | 384 |     |     |     |

Fig. 1

Figure 2



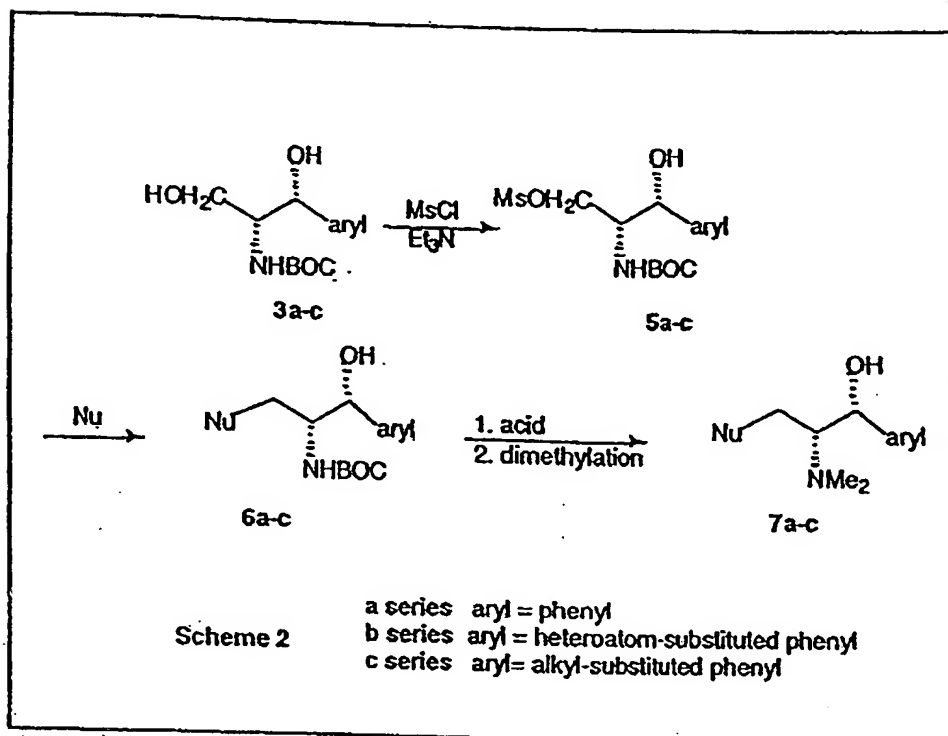


Figure 3

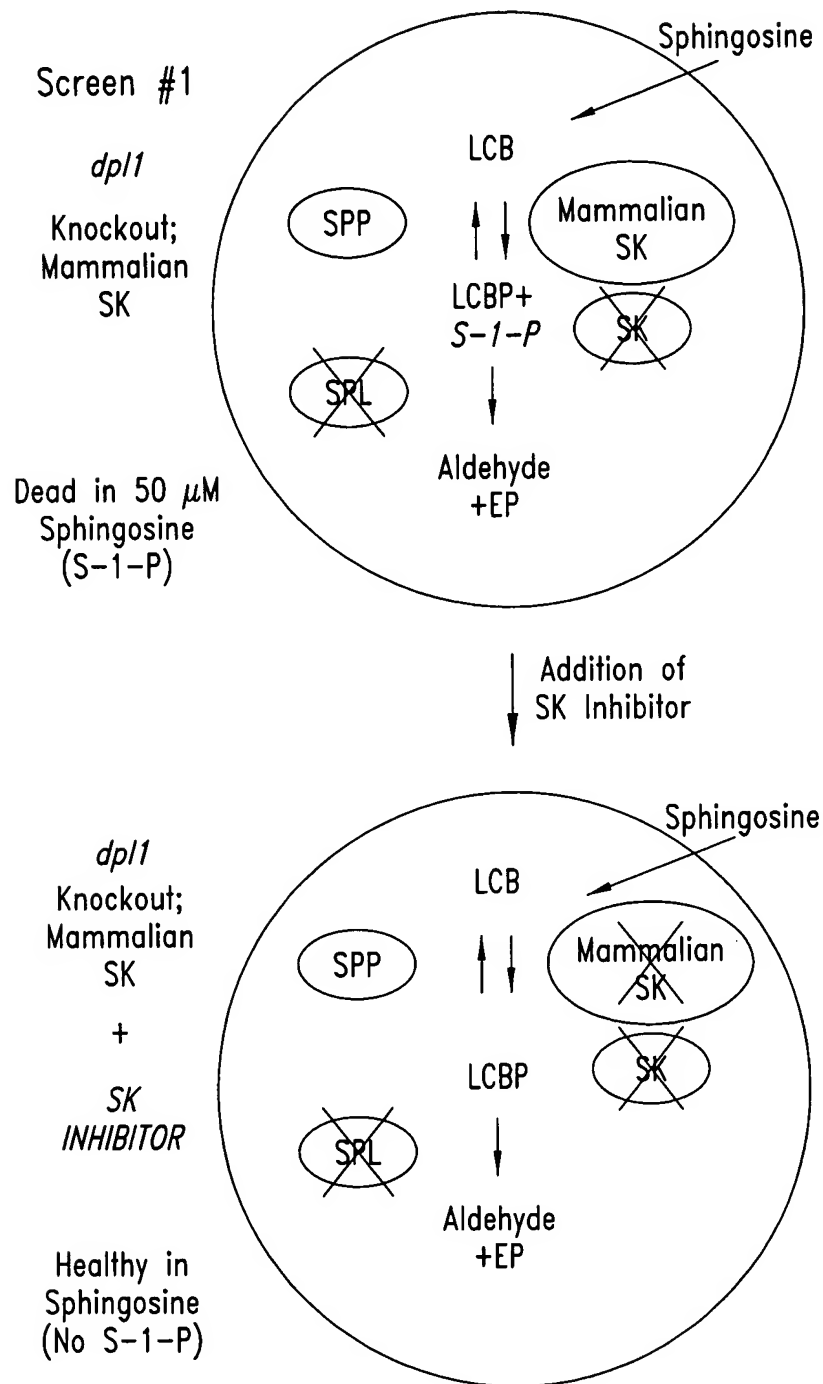


FIG. 4

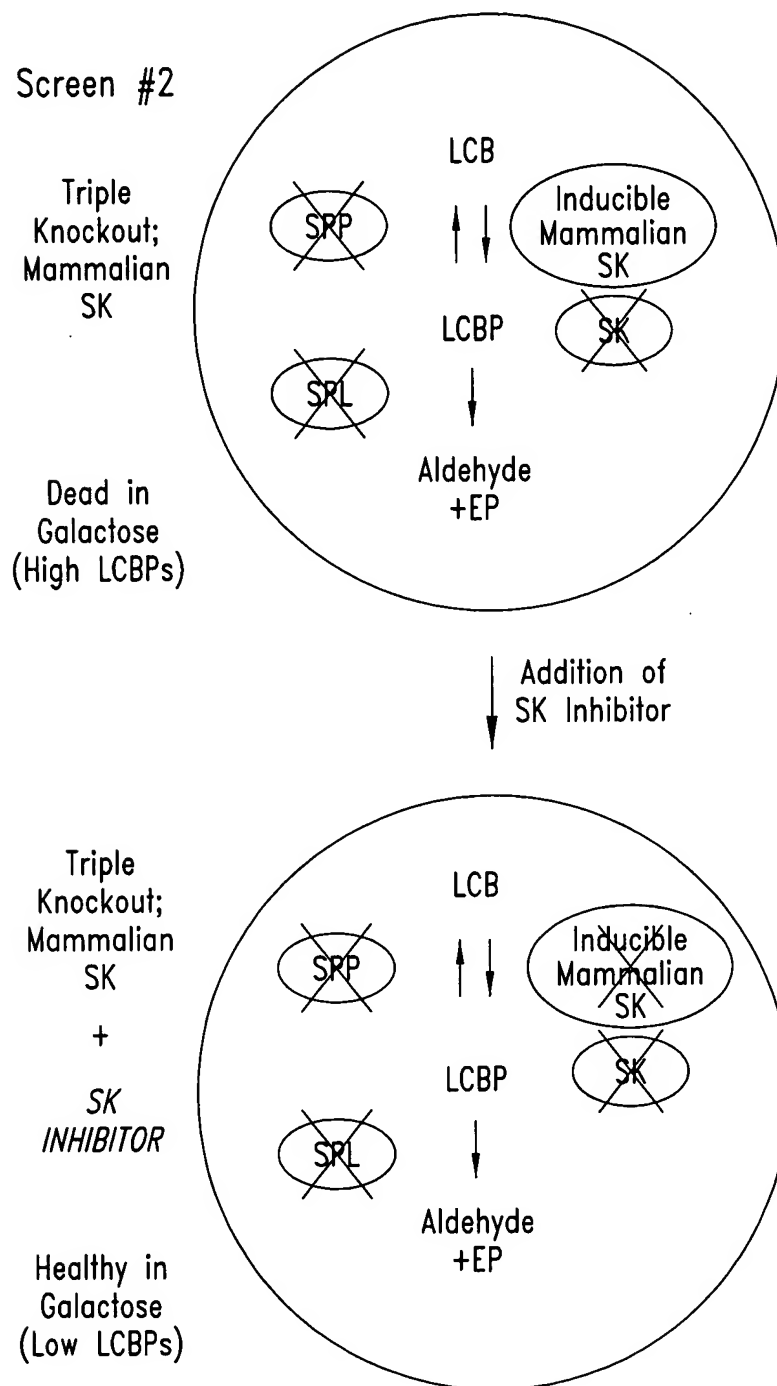


FIG. 5